

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A force-on-pedal sensor comprising:

a cylindrical substrate whose one end is closed having:

a hole at a center of ~~its~~ a side section of the cylindrical substrate; and

a strain resistance element via an insulating layer at ~~its~~ the side section of the cylindrical substrate;

a coil spring coaxially inserted from an open end of the substrate;

an inputting shaft having a stepped part contacted with one end of the coil spring and inserted in the hole in such a manner that a part of the inputting shaft is protruded from the hole; and

a stopper at a position where the inputting shaft is protruded,

wherein a first stopper having an outer diameter larger than an inner diameter of a cylindrical section of the substrate is inserted into the stepped part of the inputting shaft, and contacts the coil spring,

wherein when the coil spring is contracted to a certain load, the first stopper contacts the substrate, so that no more load is applied.

2. (Original) The force-on-pedal sensor of claim 1,

wherein a screw section is formed at an outer circumference of a cylindrical section of the substrate.

3. (Cancelled)

4. (Original) The force-on-pedal sensor of claim 1,

wherein the substrate is formed by mechanically coupling the side section with a cylindrical section, and the strain resistance element and a processing circuit are formed in one piece at the side section.

5. (Currently amended) A pedal-pressure detecting device comprising:

a brake arm;

a link whose one end is linked with the brake arm using a rotatable first shaft and the other end is linked with a push-rod which transmits force to a master cylinder; and

an arm, which is installed at the link, for transmitting a load by contacting the inputting shaft of ~~[[the]]~~ a force-on-pedal sensor as of claim 1 comprising:

a cylindrical substrate whose one end is closed having:

a hole at a center of a side section of the cylindrical substrate; and

a strain resistance element via an insulating layer at the side section of the cylindrical substrate;

a coil spring coaxially inserted from an open end of the substrate;

an inputting shaft having a stepped part contacted with one end of the coil spring and inserted in the hole in such a manner that a part of the inputting shaft is protruded from the hole;
and

a stopper at a position where the inputting shaft is protruded.

6. (Original) A pedal-pressure detecting device comprising:

a brake arm;

a link whose one end is linked with the brake arm using a rotatable first shaft and the other end is linked with a push-rod which transmits force to a master cylinder; and

an arm, which is installed at the link, for transmitting a load by contacting the inputting shaft of the force-on-pedal sensor of claim 2.

7. (Currently amended) A pedal-pressure detecting device comprising:

a brake arm;

a link whose one end is linked with the brake arm using a rotatable first shaft and the other end is linked with a push-rod which transmits force to a master cylinder; and

an arm, which is installed at the link, for transmitting a load by contacting the inputting shaft of the force-on-pedal sensor of claim [[3]] 1.

8. (Original) A pedal-pressure detecting device comprising:

a brake arm;

a link whose one end is linked with the brake arm using a rotatable first shaft and the other end is linked with a push-rod which transmits force to a master cylinder; and

an arm, which is installed at the link, for transmitting a load by contacting the inputting shaft of the force-on-pedal sensor of claim 4.

9. (Original) The pedal-pressure detecting device of claim 5,

wherein a universal joint section is formed at a load applied point between the arm and the inputting shaft.

10. (Original) The pedal-pressure detecting device of claim 6,

wherein a universal joint section is formed at a load applied point between the arm and the inputting shaft.

11. (Original) The pedal-pressure detecting device of claim 7,

wherein a universal joint section is formed at a load applied point between the arm and the inputting shaft.

12. (Original) The pedal-pressure detecting device of claim 8,

wherein a universal joint section is formed at a load applied point between the arm and the inputting shaft.